

What is claimed is:

1. A device for locking a battery pack in a guide of a power tool in which, when the battery pack is being slid into the guide, it is first able to move into a front locked position in which it is locked in relation to the power tool, but there is no electrical contact between the power tool and the battery pack, and is then able to move further into a rear locked position in which it is locked in relation to the power tool and an electrical contact is produced between the battery pack and the power tool; it is also possible to manually release the battery pack for removal and to move it from the rear locked position, through the front locked position, and out of the guide, wherein the power tool (4) has a locking mechanism (20), which remains engaged with the battery pack (6) as the battery pack (6) is being moved between the two locked positions and, together with the battery pack (6), is able to move in relation to the power tool (4).
2. The device as recited in claim 1, wherein it is possible to disengage the locking mechanism (20) from the power tool (4) in the rear locked position.
3. The device as recited in claim 1 or 2, wherein it is possible to disengage the locking mechanism (20) from the battery pack (6) in the front locked position.
4. The device as recited in one of the preceding claims, characterized by means of a spring (46), which, after a manual actuation in the rear locked position, moves the locking mechanism (20) into the front locked position.
5. The device as recited in claim 4,

wherein the locking mechanism (20) moves into the front locked position along with the battery pack (6).

6. The device as recited in one of the preceding claims,

5 wherein as it is inserted into the guide (10), the battery pack (6), together with the locking mechanism (20), is able to move out of the front locked position into the rear locked position counter to the force of the spring (46).

7. The device as recited in one of the preceding claims,

10 wherein the locking mechanism (20) is able, with a first degree of movement freedom, to disengage from a locking engagement with the power tool (4) and/or the battery pack (6) and, with a second degree of movement freedom, is able to move together with the battery pack (6) in relation to the power tool (4).

15 8. The device as recited in one of the preceding claims,

wherein the locking mechanism (20) is able to slide along a guide channel (38) of the power tool (4); in the rear locked position, the locking mechanism (20) engages in a section (44) of the guide channel (38), which is oriented essentially transversely in relation to the insertion direction and from this position, it is  
20 possible to move the locking mechanism (20) by manually actuating it in order to disengage it from a locking engagement with the power tool (4).

9. The device as recited in one of the preceding claims,

wherein the locking mechanism (20) is able to slide along a guide channel (38) of  
25 the power tool (4); in the front locked position, it engages in a section (42) of the guide channel (38) that is oriented essentially transversely in relation to the insertion direction and in this position, the locking mechanism (20) is able to pivot when manually actuated in order to disengage it from a locking engagement with the battery pack (6).

10. A power tool having a guide in which it is possible to lock a battery pack used as a power supply for the power tool; when the battery pack is being slid into the guide, it is first able to move into a front locked position in which it is locked in relation to the power tool, but there is no electrical contact between the power tool and the battery pack, and is then able to move further into a rear locked position in which it is locked in relation to the power tool and an electrical contact is produced between the battery pack and the power tool; and when the battery pack is being removed from the guide after a manual actuation of a locking mechanism of the power tool, it is possible to move the battery pack along the guide from the rear locked position into the front locked position, wherein the locking mechanism (20) remains in locked engagement with the battery pack (6) as the battery pack (6) is being moved between the two locked positions and, together with the battery pack (6), is able to move in relation to the power tool (4).